

Emergency Department Event Notification System (EDEN)

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EDEN System

- Detects Medicaid patients entering emergency departments (ED).
- Sends alert to health plans for coordination of care use cases and redistribution to care team members.
- Provides for better patient care and cost savings through many use cases, such as alerting primary care physician (PCP) to a need for follow-up with a patient to prevent readmission to ED.
- Similar, private systems have been created within a few regional Health Information Exchanges (HIEs) and hospital systems.

EDEN System Continued

- Will bring statewide event notification service; initially only for Medicaid patients.
- Approved and funded by Health and Human Services Commission (HHSC) and Centers for Medicare & Medicaid Services (CMS), implementation to begin Q2 of 2016.
- Utilizes hospital HL7 ADT feeds to detect admissions.
- Similar to syndromic surveillance and could use the same connection. Medicaid is working with state and local health departments to enable this.

Admission, Discharge, Transfer (ADT) Messages

- Subset of HL7 healthcare communications protocol.
- Informs systems within the hospital of patient information on admission; one source of basic registration data
- Mature technology that originated in late '80s and is ubiquitous in hospital settings; mostly limited to lab results and immunizations in ambulatory clinics.
- Can carry more than just patient demographic data. Elements such as diagnosis can be optionally included.
- An ADT Admit message is generated and broadcast within the hospital immediately upon patient registration. Updated Admit messages are broadcast as more information arrives, such as diagnoses.

ADT Utilization

- ADT tells us who showed up in an ED, where and when.
- Real-time processing supports the widest variety of uses.
- More data, like diagnoses, can be included to support some use cases.
 - For example, diagnoses can help PCPs prioritize follow-up. Also, inpatient admissions could be added.
- Each hospital pushes ADT messages to a common hub.

ADT Utilization Continued

- The hub must have a list of Medicaid patients and their demographic information.
- Matching is performed, alerts created and pushed to Medicaid Managed Care Organizations (MCOs).
- MCOs should use the alerts for their own purposes and then pass the info along to care team members.

EDEN Benefits

- Eases ED over-utilization, as seen in other states
- Empowers primary care physicians, health homes and behavioral health providers
- Lowers hospital readmission rates
- Provides for increased patient safety and more effective treatment when care team members are able to intervene in acute episodes
- If integrated with an HIE, can provide for push notification of information available to the ED, like care plans

Example Systems

- Other States:
 - Oregon Emergency Department Information Exchange - <http://www.orhealthleadershipcouncil.org/our-current-initiatives/emergency-department-information-exchange-edie>
 - Florida Event Notification Service - <https://florida-hie.net/ens/index.html>
 - Michigan ADT Notification Service - <http://mihin.org/services/transitions-of-care-notifications/>
- Each system is unique, but with many goals and methods in common
- HHSC will work with stakeholders to design the best system for Texas

Putting EDEN To Work

- How can your organization benefit from this system?
- The scope of this project ends at delivery of notifications to MCOs.
- Medicaid will influence MCOs usage of these notifications and encourage innovation.
- Community stakeholders should work with Medicaid and it's MCOs to tailor this service and ensure MCOs pass notifications to those that can make a difference for Medicaid patients.
- Collaboration must be conducted with respect to HIPAA and other privacy and security regulations.

EDEN Timeline

- Q3 – Q4 2015: Work with stakeholders to determine details of how ADT data will be transmitted and processed.
- Q4 2015 – Q2 2016: HHSC procurement of implementation vendor.
- Q2 2016 – Q4 2016: Onboarding of ADT connections.
- Q1 – Q3 2017: Testing and soft rollout of notification delivery.
- Q4 2017: Estimated full availability of notification system.

* All quarters are referenced as calendar year quarters.

Questions



For more information or to express your interest as a stakeholder
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